(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/093785 A3

- (51) International Patent Classification⁷: C12N 15/12, 15/63, C07H 21/04, C07K 14/47, G01N 33/566, 33/567
- (21) International Application Number:

PCT/US2004/011473

- (22) International Filing Date: 14 April 2004 (14.04.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/463,776

18 April 2003 (18.04.2003) US

- (71) Applicants (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). BANYU PHARMA-CEUTICAL CO., LTD. [JP/JP]; 2-3, Nihombashi Honcho 2-Chome, Chuo-ku, Tokyo 103-8416 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TAN, Carina, P. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). HOWARD, Andrew, D. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SANO, Hideki [JP/JP]; 2-3, Nihombashi Honcho 2-Chome, Chuo-ku, Tokyo 103-8416 (JP).
- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 6 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RHESUS MONKEY BOMBESIN RECEPTOR SUBTYPE-3 (BRS-3), NUCLEOTIDES ENCODING SAME, AND USES THEREOF

(57) Abstract: A rhesus monkey bombesin receptor subtype-3 has been isolated, cloned and sequenced. This receptor is characteristic of the G-protein family of receptors. Isolated rhesus monkey bombesin receptor subtype-3 may be used to screen and identify novel bombesin receptor modulators that may contribute to the regulation of endocrine processes, metabolism, or the cell cycle. Such compounds may be used in the treatment of conditions that result from deregulated expression of bombesin receptor subtype-3.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11473

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 15/12, 15/63; C07H 21/04; C07K 14/47; G01N 33/566, 33/567 US CL : 435/7.1, 7.2, 69.1, 320.1; 530/350; 536/23.5				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/7.1, 7.2, 69.1, 320.1; 530/350; 536/23.5				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN, Medline, EAST, USPTO Sequence Database				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category * Citation of document, with i	ndication, where a	ppropriate, of the rel	evant passages	Relevant to claim No.
X US 6,143,521 (LANE et al) 7 Nov	US 6,143,521 (LANE et al) 7 November 2000 (07.11.2000), column 10, line 47 to column 11, line 27.			11, 12
A 11, ime 27.				1-10, 13, 14
A SANO, H. Characterization of the 2004, Vol 84, pages 139-146, espe	SANO, H. Characterization of the bombesin-like peptide receptor family in primates. July, 2004, Vol 84, pages 139-146, especially page 141.			1-14
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents:		"T" later docum	ent published after the internation conflict with the conflict	national filing date or priority tion but cited to understand the
"A" document defining the general state of the art which is not considered to be of particular relevance		principle or	theory underlying the inven	tion
"E" earlier application or patent published on or after the international filing date		"Y" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)				
" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report		
12 January 2005 (12.01.2005)		U4 WAR ZUUS		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Authorized officer January C Howard January C Howard		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 571	-272-2877	